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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/980,303 03/25/2002 Christian Rutkowski 56/362 1091 10/19/2004 EXAMINER **BRINKS HOFER GILSON & LIONE** PERVEEN, REHANA P.O. BOX 10395 CHICAGO, IL 60610 ART UNIT PAPER NUMBER 2116

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/980,303	RUTKOWSKI ET AL.
	Examiner	Art Unit
	Rehana Perveen	2116
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatio  - If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON.  FR 1.136(a). In no event, however, may a replyon.  a reply within the statutory minimum of thirty (3 period will apply and will expire SIX (6) MONTH statute, cause the application to become ABAN	y be timely filed  30) days will be considered timely.  S from the mailing date of this communication.  IDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	25 March 2002.	
	This action is non-final.	•
3) Since this application is in condition for all closed in accordance with the practice un		•
Disposition of Claims		
4) ⊠ Claim(s) <u>1-12</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-5 and 9-12</u> is/are rejected. 7) ⊠ Claim(s) <u>6-8</u> is/are objected to. 8) □ Claim(s) are subject to restriction as	hdrawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exa 10)☒ The drawing(s) filed on 25 March 2002 is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11)☐ The oath or declaration is objected to by the	are: a)⊠ accepted or b)□ object o the drawing(s) be held in abeyance orrection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in App priority documents have been re ureau (PCT Rule 17.2(a)).	elication No ceived in this National Stage
AMII- 44 N		
Attachment(s)  1)  Notice of References Cited (PTO-892)	<b>∆</b> □ 1545-45 - <b>↑</b>	(DTO 440)
2) Notice of Draftsperson's Patent Drawing Review (PTO-94)	4) Interview Sum Paper No(s)/N	Mail Date
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>3/25/02</u>.</li> </ol>	B/08) 5) Notice of Info. 6) Other:	rmal Patent Application (PTO-152)

## **DETAILED ACTION**

## Allowable Subject Matter

Claims 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over IBM TDB, "Real-time Task Dispatcher for Multi-loop Control Systems", in view of Muhlfeld et al, Patent No. 5,506,787.

As to claim 1, IBM TDB teaches synchronized start-up of an application of a numerical control of a machine tool or robot, wherein several initialization steps of the application are sequentially performed, and wherein respectively a further initialization step of the application is only started after the previous initialization step has been performed (disclosure text, pages 1-3).

However, the IBM TDB does not expressly teach the application being in an object-oriented environment.

Muhlfeld et al teaches a numerical control for a machine tool or robot utilizing object-oriented application wherein the application objects govern sequence control (col. 2 line 46 – col. 3 line 40).

It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of the IBM TDB and Muhlfeld et al because both are commonly directed to application-based numerical control of a machine tool or robot, and Muhlfeld et al's object-oriented structure of the application when utilized for the IBM TDB's task-oriented structure of the application, would have enabled the system to achieve the added benefits and advantages offered by the well known object-oriented technology instead of the conventional procedural technology.

As to claim 2, the IBM TDB teaches that initially a starting program is executed which contains information regarding the application and the chronological sequence of the individual initialization steps, and which loads at least a part of the data of the application from a bulk storage into a main memory (page 2).

As to claim 3, Muhlfeld et al teach the steps to be executed in an initialization step are stored in the object to which they are also applied (col. 3 lines 1-55).

As to claim 4, Muhlfeld et al teach the execution of an initialization step is initiated in an object of an application of a start program of the application, and otherwise by the respective hierarchically higher-ranking object (col. 5 line 19 – col. 6 line 67).

As to claim 5, Muhlfeld et al teach the start program of the application only starts the next initialization step after it has received an execution report from all subordinated objects (col. 8 lines 24-40).

As to claim 9, Muhlfeld et al teach that individual and essentially completed functions of the application in the form of objects are created in an initialization step (col. 4 lines 13-45).

As to claim 10, Muhlfeld et al teach that the communications channels are created between objects in an initialization step (col. 6 lines 17-38 and col. 7 lines 23-28).

As to claim 11, Muhlfeld et al teach that parameters are assigned to the variables in the individual objects in an initialization step (col. 6 lines 39-67).

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As to claim 12, Muhlfeld et al teach the regular operation of the application is released in an initialization step (col. 7 lines 46-52).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rehana Perveen whose telephone number is 571-272-3676. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on 571-272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rehana Perveen

Primary Patent Examiner Technology Center 2100